QUISTION2

[Marks 12]

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(a) Determine the gravitational potential energy of the mass (a) when the rod makes an angle of 60° to the vertical as shown, and (a) when the rod in hosterostal as

b) Determine the speed of the mass  $\nu$  when the rod makes an angle of  $60^{\circ}$  to the vertical as shown.

(c) Determine the kinetic energy of the mass when the rod is horizontal as shown, and comment on what your result signifies.

